

U.S. Patent Application Serial No. 10/807,174
Amendment filed March 28, 2007
Reply to OA dated November 28, 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A composition comprising:

a siloxane resin prepared by heating a mixture containing tetraalkoxysilane, an alkyltrialkoxysilane, and/or a trialkoxysilane, as well as a solvent, followed by vaporizing a predetermined amount of alcohol which is not a polymetallosiloxane;

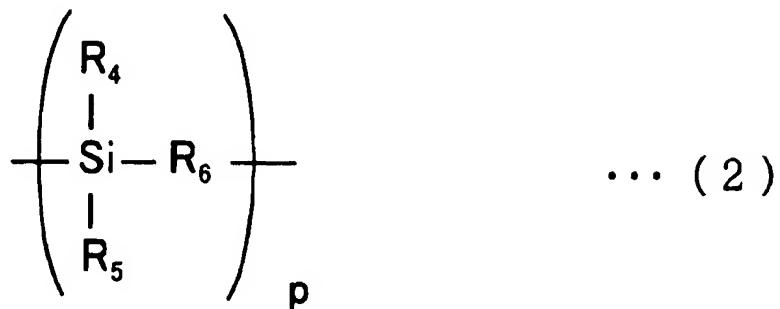
a silicon compound substantially consisting of silicon, carbon and hydrogen, wherein the number ratio of carbon forming an -X- bond (wherein X is $(C)_m$ (where m is an integer in the range of from 1 to 2 or 3), or a substituted or unsubstituted aromatic group with 9 or less carbon atoms) to silicon atoms in the main chain of one molecule is in the range of from 2:1 to 12:1;

a dissipating agent for forming pores, said dissipating agent comprising a substance that loses its weight by 5% by weight or more at 150°C and by 90% by weight or more at 400°C when heated up at a rate of 10°C/min from usual temperature; and

the balance being a solvent.

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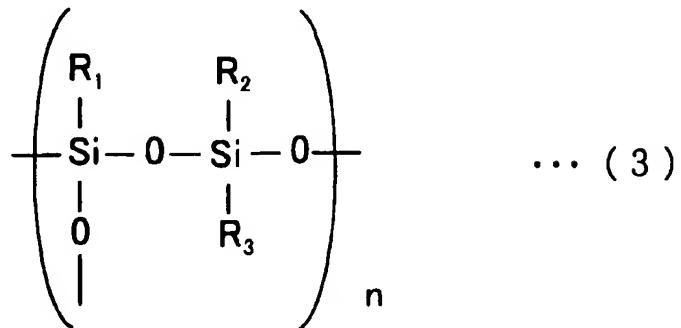
Claim 2 (Original): A composition according to claim 1, wherein said silicon compound has a structure represented by formula (2):



(wherein R_4 and R_5 are each, same or different, H, an aliphatic hydrocarbon group with 1 to 3 carbon atoms, or a substituted or unsubstituted aromatic hydrocarbon group with 6 to 9 carbon atoms; R_6 is an aliphatic hydrocarbon group with 1 to 3 carbon atoms, or a substituted or unsubstituted phenylene group; and p is an integer in the range of from 20 to 1,000).

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Claim 3 (Original): A composition according to claim 1, wherein said siloxane resin has a structure represented by formula (3):



(wherein R₁, R₂, and R₃ are each, same or different, hydrogen, fluorine, a methyl group or an -O- group; and n is an integer in the range of from 5 to 1,000).

Claim 4 (Original): A composition according to claim 1, wherein said siloxane resin is obtained:

by subjecting to a heat treatment a mixture containing a tetraalkoxysilane (a) and an alkyltrialkoxysilane and/or trialkoxysilane (b) at a molar ratio (a:b) of 0:1 to 1:0; and

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by releasing from 100 to 400 moles of alcohols out of 100 moles of (a + b), the total of the tetraalkoxysilane (a) and the alkyltrialkoxysilane and/or trialkoxysilane (b).

Claim 5 (Original): A composition according to claim 1, wherein the carbon concentration in said siloxane resin is in the range of from 1 to 80 atom% based on the total atoms of the siloxane resin.

Claim 6 (Original): A composition according to claim 1, wherein the concentration of hydrogen atoms directly bonded to silicon in said siloxane resin is in the range of from 1 to 25 atom% based on the total atoms of the siloxane resin.

Claim 7 (Original): A composition according to claim 1, wherein from 0.1 to 200 parts by weight of said silicon resin is used based on 100 parts by weight of said siloxane resin.